

AMENDMENT TO THE CLAIMS

A complete listing of the claims of the present application, including those being amended herein, together with the required claim status indicators, is set forth as follows:

Claim 1 (Currently amended): A method for providing improved teleservice messaging to a mobile station in a wireless communication network, comprising the steps of:

receiving at a network sending entity an indication of the maximum teleservice payload size that can be sent by said network sending entity to said mobile station via network receiving entities serving said mobile station; and

utilizing said payload size indication at said network sending entity to format the size of teleservice messages sent by said network sending entity to said mobile station via said network receiving entities; and

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said payload size indication being originated from one of said network receiving entities as a message parameter during standard registration message exchange involving said one network receiving entity.

Claim 2 (Currently amended): A method in accordance with Claim 1 wherein said receiving step includes receiving said payload size indication from one of said network receiving entities at said network sending entity payload size indication is passed during standard registration message exchange from said one network receiving entity to a database associated with said mobile station, and wherein said payload size indication is passed during standard registration message exchange from said database to said network sending entity.

Claim 3 (Currently amended): A method in accordance with Claim 2, wherein said network receiving entity from which said payload size indication is received is a switch serving said mobile station payload size indication is passed during standard registration message exchange from said one network receiving entity to said network sending entity.

Claim 4 (Currently amended): A method in accordance with Claim 3, wherein said switch one network receiving entity is a Mobile Switching Center (MSC).

Claim 5 (Currently amended): A method in accordance with Claim 31 wherein said switch one network receiving entity is a Mobile Data Intermediate System (MDIS).

Claim 6 (Currently amended): A method in accordance with Claim 31 wherein said switch one network receiving entity is a Serving GPRS Support Node (SGSN).

Claim 7 (Currently amended): A method in accordance with Claim 21 wherein said receiving step further includes receiving said payload size indication from one of said network receiving entities at said network sending entity via a database associated with said mobile station network sending entity is one of a Short Message Service Center (SMSC), a Message Center (MC) or a Wireless Application Protocol (WAP) server.

Claim 8 (Currently amended): A method in accordance with Claim 72 wherein said database is a Home Location Register (HLR).

Claim 9 (Currently amended): A method in accordance with Claim 2 1 further including preliminarily receiving said payload size indication at a database associated with said mobile station as a message parameter during standard registration message exchange between one of said network receiving entities and said database during operations of said wireless network, said preliminary receiving step being performed prior to said receiving step wherein said standard registration message exchange includes one of an Authentication On Initial Access message exchange, a Direct FeatureRequest With Call Routing message exchange, a LocationRequest message exchange, an OriginationRequest message exchange, a QualificationRequest message exchange, a RegistrationNotification message exchange, or a TransferToNumberRequest message exchange.

Claim 10 (Currently amended): A method in accordance with Claim 3 9 wherein said receiving step further includes receiving said payload size indication from said database at said network sending entity as a message parameter during standard registration message exchange between said database and said network sending entity standard registration message exchange includes one of an SMSNotification message exchange or an SMSRequest message exchange.

Claim 11 (Currently amended): A system for providing improved teleservice messaging to a mobile station in a wireless communication network, comprising:

means for receiving at a network sending entity an indication of the maximum teleservice payload size that can be sent by said network sending entity to said mobile station via network receiving entities serving said mobile station; and

means for utilizing said payload size indication at said network sending entity to format the size of teleservice messages sent by said network sending entity to said mobile station via said network receiving entities; and

means for originating said payload size indication from one of said network receiving entities as a message parameter during standard registration message exchange involving said one network receiving entity.

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Claim 12 (Currently amended): A system in accordance with Claim 11 wherein said receiving means includes means for receiving said payload size indication from one of said network receiving entities at said network sending entity originating means is adapted to pass said payload size indication during standard registration message exchange from said one network receiving entity to a database associated with said mobile station, and wherein said receiving means is adapted to receive said payload size indication during standard registration message exchange from said database to said network sending entity.

Claim 13 (Currently amended): A system in accordance with Claim 12 11 wherein said network receiving entity from which said payload size indication is received is a switch serving said mobile station receiving means is adapted to receive said payload size indication during standard registration message exchange from said one network receiving entity to said network sending entity.

Claim 14 (Currently amended): A method system in accordance with Claim 13 11 wherein said switch one network receiving entity is a Mobile Switching Center (MSC).

Claim 15 (Currently amended): A system in accordance with Claim 13 11 wherein said switch one network receiving entity is a Mobile Data Intermediate System (MDIS).

Claim 16 (Currently amended): A system in accordance with Claim ~~13~~¹¹ wherein said switch one network receiving entity is a Serving GPRS Support Node (SGSN).

Claim 17 (Currently amended): A system in accordance with Claim ~~12~~¹¹ wherein said receiving means further includes means for receiving said payload size indication from one of said network receiving entities at said network sending entity via a database associated with said mobile station network sending entity is one of a Short Message Service Center (SMSC), a Message Center (MC) or a Wireless Application Protocol (WAP) server.

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Claim 18 (Currently amended): A system in accordance with Claim ~~17~~¹² wherein said database is a Home Location Register (HLR).

Claim 19 (Currently amended): A system in accordance with Claim ~~11~~¹² further including means for preliminarily receiving said payload size indication at a database associated with said mobile station as a message parameter during standard registration message exchange between one of said network receiving entities and said database during operations of said wireless network, and wherein said preliminary receiving means receives said payload size indication at said database prior to said receiving means receiving said payload size indication at said network sending entity wherein said standard registration message exchange includes one of an Authentication On Initial Access message exchange, a Direct FeatureRequest With Call Routing message exchange, a LocationRequest message exchange, an OriginationRequest message exchange, a QualificationRequest message exchange, a RegistrationNotification message exchange, or a TransferToNumberRequest message exchange.

Claim 20 (Currently amended): A system in accordance with Claim ~~19~~¹³ wherein said receiving means further includes means for receiving said payload size indication from said database at said network sending entity as a message parameter during routine message exchange between said database and said network sending entity standard registration message exchange includes one of an SMSNotification message exchange or an SMSRequest message exchange.

Claim 21 (Currently amended): A method for providing improved teleservice messaging to a mobile station in a wireless communication network, comprising the steps of:

providing to a network sending entity an indication of the maximum teleservice payload size that can be sent by said network sending entity to said mobile station via network receiving entities serving said mobile station; and

said maximum teleservice payload size indication being utilizable by said sending network entity to format the size of teleservice messages sent by said network sending entity to said mobile station via said network receiving entities; and

said payload size indication being originated from one of said network receiving entities as a message parameter during standard registration message exchange involving said one network receiving entity.

Claim 22 (Currently amended): A method in accordance with Claim 21 wherein said providing step includes providing said payload size indication from one of said network receiving entities to said network sending entity payload size indication is passed during standard registration message exchange from said one network receiving entity to a database associated with said mobile station, and wherein said payload size indication is passed during standard registration message exchange from said database to said network sending entity.

Claim 23 (Currently amended): A method in accordance with Claim 221 wherein said network receiving entity providing said payload size indication is received is a switch serving said mobile station payload size indication is passed during standard registration message exchange from said one network receiving entity to said network sending entity.

Claim 24 (Currently amended): A method in accordance with Claim 2321 wherein said switch one network receiving entity is a Mobile Switching Center (MSC).

Claim 25 (Currently amended): A method in accordance with Claim 2321 wherein said switch one network receiving entity is a Mobile Data Intermediate System (MDIS).

Claim 26 (Currently amended): A method in accordance with Claim 2321 wherein said ~~switch~~ one network receiving entity is a Serving GPRS Support Node (SGSN).

Claim 27 (Currently amended): A method in accordance with Claim 2221 wherein said ~~providing~~ ~~step further includes providing said payload size indication from one of said network receiving entities at said network sending entity via a database associated with said mobile station network~~ sending entity is one of a Short Message Service Center (SMSC), a Message Center (MC) or a Wireless Application Protocol (WAP) server.

Claim 28 (Currently amended): A method in accordance with Claim 2722 wherein said database is a Home Location Register (HLR).

Claim 29 (Currently amended): A method in accordance with Claim 2422 wherein said ~~providing~~ ~~step includes providing said payload size indication to a database associated with said mobile station as a message parameter during standard registration message exchange between one of said network receiving entities and said database during operations of said wireless network~~ standard registration message exchange includes one of an Authentication On Initial Access message exchange, a Direct FeatureRequest With Call Routing message exchange, a LocationRequest message exchange, an OriginationRequest message exchange, a QualificationRequest message exchange, a RegistrationNotification message exchange, or a TransferToNumberRequest message exchange.

Claim 30 (Currently amended): A method in accordance with Claim 2923 wherein said ~~providing~~ ~~step further includes providing said payload size indication from said database to said network sending entity as a message parameter during standard registration message exchange between said database and said network sending entity~~ standard registration message exchange includes one of an SMSNotification message exchange or an SMSRequest message exchange.

Claim 31 (Currently amended): A system for providing improved teleservice messaging to a mobile station in a wireless communication network, comprising:

means for providing to a network sending entity an indication of the maximum teleservice payload size that can be sent by said network sending entity to said mobile station via network receiving entities serving said mobile station; and

said maximum teleservice payload size indication being utilizable by said sending network entity to format the size of teleservice messages sent by said network sending entity to said mobile station via said network receiving entities; and

means for originating said payload size indication from one of said network receiving entities as a message parameter during standard registration message exchange involving said one network receiving entity.

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Claim 32 (Currently amended): A system in accordance with Claim 31 wherein said providing means includes means for providing said payload size indication from one of said network receiving entities to said network sending entity originating means is adapted to provide said payload size indication during standard registration message exchange from said one network receiving entity to a database associated with said mobile station, and wherein said providing means is adapted to provide said payload size indication during standard registration message exchange from said database and said network sending entity.

Claim 33 (Currently amended): A system in accordance with Claim 3231 wherein said network receiving entity from which said payload size indication is provided is a switch serving said mobile station providing means is implemented using said originating means to provide said payload size indication from said one network receiving entity during standard registration message exchange between said one network receiving entity and said network sending entity.

Claim 34 (Currently amended): A method in accordance with Claim 3231 wherein said switch one network receiving entity is a Mobile Switching Center (MSC).

Claim 35 (Currently amended): A system in accordance with Claim 3231 wherein said switch one network receiving entity is a Mobile Data Intermediate System (MDIS).

Claim 36 (Currently amended): A system in accordance with Claim 3331 wherein said switch one network receiving entity is a Serving GPRS Support Node (SGSN).

Claim 37 (Currently amended): A system in accordance with Claim 3231 wherein said providing means further includes means for providing said payload size indication from one of said network receiving entities to said network sending entity via a database associated with said mobile station network sending entity is one of a Short Message Service Center (SMSC), a Message Center (MC) or a Wireless Application Protocol (WAP) server.

Claim 38 (Currently amended): A system in accordance with Claim 3731 wherein said database is a Home Location Register (HLR).

Claim 39 (Currently amended): A system in accordance with Claim 3432 wherein said providing means includes means for providing said payload size indication to a database associated with said mobile station as a message parameter during standard registration message exchange between one of said network receiving entities and said database during operations of said wireless network standard registration message exchange includes one of an Authentication On Initial Access message exchange, a Direct FeatureRequest With Call Routing message exchange, a LocationRequest message exchange, an OriginationRequest message exchange, a QualificationRequest message exchange, a RegistrationNotification message exchange, or a TransferToNumberRequest message exchange.

Claim 40 (Currently amended): A system in accordance with Claim 3933 wherein said providing means further includes means for providing said payload size indication from said database to said network sending entity as a message parameter during routine message exchange between said database and said network sending entity standard registration message exchange includes one of an SMSNotification message exchange or an SMSRequest message exchange.

Claim 41 (Original): In an wireless communication system, a method for providing improved teleservice messaging to a mobile station communicating through the wireless communication system, comprising the steps of:

receiving at a network sending entity an indication of the maximum teleservice payload size that can be sent by said network sending entity to said wireless station via network receiving entities serving said mobile station;

utilizing said payload size indication at said network sending entity to format the size of teleservice messages sent by said network sending entity to said mobile station via said network receiving entities;

 said receiving step including receiving said payload size indication from one of said network receiving entities at said network sending entity via a database associated with said mobile station; and

 said receiving step further including first receiving said payload size indication at said database and thereafter at said network sending entity during standard registration message exchange between one of said network receiving entities and said database, and between said database and said network sending entity, respectively, during operations of said wireless communication system.

Claim 42 (Original): In an wireless communication system, a method for providing improved teleservice messaging to a mobile station communicating through the wireless communication system, comprising the steps of:

 providing to a network sending entity an indication of the maximum teleservice payload size that can be sent by said network sending entity to said wireless station via network receiving entities serving said mobile station;

 said payload size indication being utilizable at said network sending entity to format the size of teleservice messages sent by said network sending entity to said mobile station via said network receiving entities;

 said providing step including providing said payload size indication from one of said network receiving entities to said network sending entity via a database associated with said mobile station; and

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said providing step further including providing said payload size indication to said database and to said network sending entity during standard registration message exchange between one of said network receiving entities and said database, and between said database and said network sending entity, respectively, during operations of said wireless communication system.